# 03-15-SEQLIST-1010 SEQUENCE LISTING

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cys Gly Lys

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20 25 30

Cys Gly



Cys Gl	y Ser													
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Cys Cy	s Glu	Pro	Leu	Glu	Cy5	Thr	Ly5	бlу	Asp	Leu	Gly	Phe	Arg	Lys
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Cys Gl	У													
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Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile 50 55 60

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Val Lys Lys Asp Glu Leu	Die Mat San M	at Ala Cue Val	Ove Ove Clu
20	cys mec ser mi	ec Ala Cys Vai	30
Pro Leu Glu Cys Lys Tyr		he Tro Leu Cvs	
35	40	45	01, 501 01,
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Gly Ser Ser Gly Ser Se	r Leu Val Ala Ser Ala 55	Ile 60
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Pro Leu Glu Cys Ile Ty 35	r Thr Ser Glu Leu Tyr 40	Ala Thr Cys Gly Ser 45
Gly Ser Ser Gly Ser Se 50	r Gly SS	
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25

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40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile

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Gly Ser Ser Gly Ser Ser Gly Ser Asn 50 55

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10	

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Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile 50 S5 60

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<210> 99

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Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu
20 25 30

Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly Ser 35 40 45 Page 64

Gly 5e		Gly	Ser	ser	Leu 55	۷a٦	Ala	ser	Ala	11e 60				
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Met Hi	s His	His	нis	His	His	Ser	Gly	Ser	ser	ser	Gly	ser	Gly	Cys
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Val Ly	s Lys	Asp 20	Glu	Leu	Cys	Glu	Leu 25	Аla	Ile	Asp	val	Cys 30	Cys	Glu
Pro Le	u Glu 35	Cys	Leu	GTy	нis	G1y 40	Leu	Gly	Tyr	Ala	Tyr 45	Cys	Gly	Ser
Gly Se 50		Gly	Ser	Ser	Leu 55	Val	Ala	Ser	Ala	Ile				
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Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ile 50 55 60

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Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile 50 55 60

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Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser 35 40 45

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03-15-SEQLIST-1010
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                        55
                                             60
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1
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                                                         15
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                                 25
                                                     30
Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
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                             40
                                                 45
Gly Ile
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Pro	1 611	Glu	cvs	Len	Glv	His	Gly	Leu	Glv	Tvr	Δla	Tvr	rvs	GTv	Ser
,,,	cca	35	cy s	LCG	u ()	1113	40	LCG	0.,	131	Alu	45	Cys	u, j	30,
		33					40					43			
c2	c		e3		c		v-3		~ - ···	.7.	~	.1.	<b>+1</b> -		
Gty		Ser	Gry	261	261.		vat	Ala	261.	на		міа	7.16		
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val	Lys	Lys	Asp	Glu	Leu	Cys	Glu	Leu	Аlа	Ile	Asp	Val	Cys	Cys	Glu
val	Lys	Lys	Asp 20	Glu	Leu	Cys	Glu	Leu 25	Ala	Ile	Asp	Val	cys 30	Cys	Glu
val	Lys	Lys		Glu	Leu	Cys	Glu		Ala	Ile	Asp	Val		Cys	Glu
Val	Lys	Lys		Glu	Leu	Cys	Glu		Ala	Ile	Asp	Val		Cys	Glu
			20					25					30		
		Glu	20				Gly	25				Tyr	30		
			20					25					30		
		Glu	20				Gly	25				Tyr	30		
Pro	Leu	Glu 35	20 Cys				Gly	25				Tyr	30		
Pro	Leu	Glu	20 Cys				Gly	25				Tyr	30		

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1			5					10					15	
Val Ly	. Lys	Asp 20	Glu	Leu	Cys	Glu	Leu 25	Ala	Ile	Asp	Val	Cys 30	Cys	Glu
Pro Le	ı Glu 35	Cys	Leu	GТу	His	Gly 40	Leu	GТу	Tyr	Ala	Tyr 45	Cys	Gly	Ser
Gly														
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Leu His His	His His His S	03 His Ser Gly	-15-SEQLIST-1010 Ser Ser Ser Gly 10	ser Gly Cys 15
	Asp Glu Leu 20	Cys Glu Leu 25	Ala Ile Asp Val	cys cys Glu 30
Pro Leu Glu	Cys Leu Gly	His Gly Leu 40	Gly Tyr Ala Tyr 45	Cys Gly Ser
Gly Ser Ser	Gly Ser Ser	Leu Val Asp 55	Pro	
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	Asp Glu Leu 20	Cys Glu Leu 25	Ala Ile Asp Val	Cys Cys Glu 30

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Gly Asn

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Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu 20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys

35 45 40

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35 40 45

Gly Ser Ser Gly Ser Asn

50

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20 25 30

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Met Hi	s His	His		His	His	Ser	Gly		Ser	Ser	Gly	Ser		Cys
1			5					10					15	
1/m <sup>2</sup> 1			~7		<b></b>	mh .			nh -	c	nl	<b></b>		c3
Val Ly:	s Lys	asp 20	GIU	Leu	cys	Pne	25	Arg	rne	Ser	Pne	30	cys	GIU
		20					23					30		
Pro Lei	u Glu	CVS	L.eu	Glv	His	Glv	Leu	GΊν	Tvr	Ala	Tvr	Cvs	G]v	Asn
	35	-,-				40		.,	.,.		45	-,-	,	
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Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser Page 76 35 40 45

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
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20 25 30

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Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile
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20 25

Pro Leu Glu Cys Ile Leu Gln Phe Met Asn Lys Met Phe Cys Gly Ser 45

35 40

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile 50 55 60

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Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Trp 5 1 10 15

### 03-15-SEOLTST-1010

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ly Ser Ser	Leu Val	Ala Ser	Ala Ser Ala	Ile
	55		60	
svlvestre				
3,1103210				
ís His His	His Ser	Gly Ser	ser ser Gly	Ser Gly Cys
5		10		15
-7				
	Cys Ala	_	Ile Trp Ala	
,		25		30
ys Leu Met	Arg Phe	Met Ala	Lys Arg Phe	Cys Gly Ser
	40		45	
ly Ser Ser		Ala Ser		Ile
	55		60	
sylvestre				
	sylvestre is His His 5 sp Glu Leu ) //s Leu Met	sylvestre  is His His His Ser 5  sp Glu Leu Cys Ala ) //s Leu Met Arg Phe 40  ly Ser Ser Leu Val 55	sylvestre  is His His His Ser Gly Ser 5 10  sp Glu Leu Cys Ala Ser Arg 25  //s Leu Met Arg Phe Met Ala 40  ly Ser Ser Leu Val Ala Ser 55	sylvestre  is His His His Ser Gly Ser Ser Ser Gly 5 10  sp Glu Leu Cys Ala Ser Arg Ile Trp Ala 25  /s Leu Met Arg Phe Met Ala Lys Arg Phe 40 45  ly Ser Ser Leu Val Ala Ser Ala Ser Ala 55 60

~100c	122

Met His His His His His His Ser Gly Ser Ser Gly Ser Gly Cys

1 5 10 15

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20 25 30

Pro Leu Glu Cys Leu Arg Arg Trp Tyr Glu Glu Ser Phe Cys Gly Ser 35 40 45

Gly Ser Ser Gly 50

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Val Lys Lys Asp Glu Leu Cys Thr Met Asn Glu Val Cys Cys Glu Page 81

20

Pro Leu Glu Cys Tyr Gly Asp Ile Ser Gly Glu Ala Met	Cys Gly Ser
35 40 45	
	_
Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala	Ile
50 55 60	
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Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser 35 40 45

25

30

Gly Ser Ser Gly Ser Ser Leu Val Ala Ser Ala Ser Ala Ile 50 55 60 Page 82

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<211>	62													
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1			5					10					15	
Val Lys	Lys	Asp	Glu	Leu	Cys	Lys	Ala	Phe	Arg	Tyr	Ser	Cys	cys	Glu
		20					25					30		
Pro Lei	ı Glu	Cys	Leu	Arg	Ly5	Тгр	Leu	Lys	Ala	Arg	Phe	Cys	Gly	Ser
	35					40					45			
Gly Ser	ser	Gly	Ser	Ser	Leu	٧a٦	ΑΊa	Ser	ΑΊa	ser	Ala	Ile		
50					55					60				
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Met His His His His His Ser Gly Ser Ser Gly Ser Gly Cys 1 10 15 Val Lys Lys Asp Glu Leu Cys Val Ser Gly Leu Met Asn Cys Cys Glu 20 25 30 Pro Leu Glu Cys Leu Trp Arg Trp Met Gln Lys Gln Gln Cys Gly Ser 35 40 45 Gly Ser Ser Gly Ser Ser His 55 50 <210> 127 <211> 55 <212> PRT <213> Gymnea sylvestre <400> 127 Met His His His His His Ser Gly Ser Ser Gly Ser Gly Cys 1 S 10 15 Val Lys Lys Asp Glu Leu Cys Trp Arg Pro Ala Ile Thr Cys Cys Glu 20 25 30

03-15-SEQLIST-1010 Pro Leu Glu Cys Leu Arg Ile Tyr Met Arg Leu Trp Arg Cys Gly Ser 35 40 45 Gly Ser Ser Gly Ser Ser Leu 55 50 <210> 128 <211> 56 <212> PRT <213> Gymnea sylvestre <400> 128 Met His His His His His Ser Gly Ser Ser Gly Ser Gly Cys 1 5 10 15 Val Lys Lys Asp Glu Leu Cys Ser Gln Leu Asp Ser Ala Cys Cys Glu 20 25 30 Pro Leu Glu Cys Val Trp Gln Asn Asp Asn Tyr Gly Thr Cys Gly Arg 35 40 45

Ala Val Leu Gly Leu Ala His Pro 50 55



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Pro Leu Glu Cys Phe His Ile Val Trp Cys Pro Trp Ala Cys Thr Ala 35 40 45

Val His

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<211> 51

<212> PRT

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Met His His His His His Ser Asp Ser Ser Ser Gly Ser Gly Cys

1 5 10 15
Page 86

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		20					25					30		
Pro Le	ແລນ	CVS	Lan	Trn	Trn	αľa	Glv	Val	Pro	Leu	Met	CVS	GIV	Ser
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